



# Ferroperm™ Piezoelectric Tape-cast piezoceramics



*Tape-cast bimorph PZT*

## Tape-cast piezoceramics

Meggitt A/S manufactures tape-casted versions of Pz27 to provide a cost effective solution of creating bimorph or multilayer structures . This solution retains the excellent properties of Pz27 as a material of choice for sensors and transducers and enables more complicated structures that were unachievable by standard bulk PZT manufacturing techniques.

- > A fully automated line is the cornerstone in production of miniature medical sensors and transducers
- > Turn-key delivery since December 2011
- > Over 1,000,000 pcs delivered to the major producers of pacemakers since 2014

## Repeatable performance

The main focus through our entire production process is to provide materials and components with the highest possible reproducibility of properties and parameters and to obtain the lowest aging rates in the industry.

Our materials have a variation of  $\pm 5\%$  for all parameters. This reduces the requirements for impedance matching, frequency tuning and dimensioning of the housing meaning fewer rejects and lower costs.

## Customised solutions

We have more than 60 years of experience in the production of advanced piezoelectric ceramics. Our team has extensive expertise in customising designs to match the customer's needs.

Please contact us to discuss your requirements in further detail.

## Key benefits

- Lowest batch to batch variation in the industry
- Stable material with consistent performance
- Customised or standard designs

## Key features

- High volume
- Good stability over time
- Bimorph/multilayer integration

## Applications

- Sensors
- Actuators
- Transducers

## Contact

CTS Ferroperm

Porthusvej 4, DK-3490  
 Kvistgaard  
 Denmark  
 Tel: +45 49 12 71 00

e-mail: [pz@ctscorp.com](mailto:pz@ctscorp.com)

[www.ferropermpiezoceramics.com](http://www.ferropermpiezoceramics.com)

## CTS Ferroperm

Our product competencies and services:  
 Piezoelectric ceramics | Multilayer | Thick-film | InSensor® | PiezoPaint™